

Holds a B. Sc. in Industrial Electronics & Control Engineering and has over 11 years hands-on experience working in I&C field.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 15/05/1987  
Gender : Male  
Marital Status : Married  
Residence : Menoufia

## **EDUCATION**

: B. Sc. in Industrial Electronics & Control Engineering, Menoufia University, 2009

## **LANGUAGES**

Arabic : Native Language  
English : Very Good

## **COMPUTER SKILLS**

: Windows, MS Office (Word, Excel, Power Point), Internet

## **TRAINING COURSES AND CERTIFICATIONS**

- : Gas Turbine MKVIe Control System, EX2100e, LS2100, GPP – General Electric, Egypt.
- : Gas Turbine Operation and Maintenance – General Electric, Egypt.
- : Centum VP R5 Operation and Maintenance – Yokogawa, Bahrain.
- : Condensate Pumps Course – KSB, Germany.
- : Steam Turbine Operation and Maintenance – Ansaldo, Egypt.
- : Steam Turbine Control System (Symphony Harmony) – Giza North Power Plant, Egypt.
- : Diverter damper Hydraulic Power Unit Operation and Maintenance – SEPCOIII, Egypt.
- : Bechtel Course in Shoubra El-Kheima Power Station.
- : Operation and Maintenance of Combined Cycle Power Plants – Cairo North Power Plant, Egypt.
- : Mark VI Training – Cairo North Power Plant, Egypt.
- : Training in Textile factory (Electrical & Control Sector).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Dec. 2014 till now
- Employer** : Cairo Electricity Production Company
- Project** : Giza North Power Station Project consists of Three Modules (3x750MW) Combined Cycle
- Job titles** : I&C Maintenance Engineer / I&C DCS Engineer
- Job Description** :
- Specialist in Mark Vie (Gas turbine GE Frame 9FA) Controller.
  - Responsible for the maintenance and upkeep of devices and Mark Vie software.
  - Responsible for parts inventory for six GE 9FA gas turbines and auxiliary systems.
  - Responsible for administering the Contractual Service Agreement with regards to spare parts.
  - Responsible for preventive maintenance, troubleshooting, and corrective actions.
  - Assigned on all outages: combustion, hot gas path, and major inspections.
  - Recently participated in three gas turbine forced majors.
  - Recently participated in Five forced Hot Gas Path Inspections and twelve combustion Inspections.
  - I&C Engineer for DCS (YOKOGAWA centum VP R5) (from Jan. 2018 till now):
    - Perform all necessary activities for HRSG that include maintenance, troubleshooting, fixing and working on software and instruments.
    - Performed the testing, calibration and troubleshooting of several kind of Switches (pressure, flow, level, proximity), smart transmitters and bently nevada vibration sensors.
    - Dealing with motorized valve actuators types (biffi, rotork, auma) and adjust the feedback limit switches for it, pneumatic valve actuators and hydraulic "servo" Valve Actuators.
    - Perform calibration and troubleshooting for several kind of positioners as siemens foxboro (Invensys, Schneider ) and fisher Positioners.
    - Evaluate the manpower requirement for daily preventive, break down, shutdown maintenance and Provide field supervision over the execution of maintenance activities of the equipment to ensure that the problems are resolved with minimum down time.
    - Dealing with I/O list, logic, graphic and Collect any data in excel sheets.
    - Handling work permit for any job with operation team.
    - Setting of network IP configuration for work station and controller.
    - Transferring variables from damaged to healthy channels, downloading on FCS and HIS.

- Dates** : From Feb. 2011 till Dec. 2014
- Employer** : Cairo Electricity Production Company
- Project** : Giza North Power Station

**Job title** : I&C Engineer

**Job Description** :

- Acted as Commissioning and Start-up Engineer for GE gas turbine Frame 9FA systems.
- Performed the installation and calibration for all instruments and control systems.
- Responsible for tracing all alarms, troubleshooting and give root cause analysis.
- Ensured continuity for all control cables and loop checking, functional testing of all instruments.
- Walk down on all systems and follow P&ID, MLIs and the specification.
- Broad knowledge base in Bentley Nevada vibration system 3500.
- Broad knowledge base of all auxiliary systems operation and troubleshooting.
- Assisted in preparing gas treatment area including Knock out drum, water bath heaters, gas scrubber, Ultrasonic gas flow meter, gas chromatograph and other equipments.
- Calibrated and tested gas control valves of the gas turbine and the instrumentation of its systems like gas fuel, fire protection, gas detection, heating and ventilation, lube & hydraulic oil, Liquid Fuel & water injection, atomizing & purge air systems and others in particular.
- Commissioned diverter damper (HPU) and modbus (soft link) interface signals with DCS.
- Performed commissioning and start-up tests: crank, false fire, first fire, loss of flame and over speed trip tests as well as witnessed first full speed no load, synchronization, and island mode.
- Performed base load tests: liquid and gas fuel changeovers and water injection tuning.
- Familiar with fuel gas and liquid fuel tuning.
- Able to explain and use evidence from run backs and load rejection.
- Operation experience in performance tests, reliability run, offline/online water wash.
- During construction and commissioning my role included study of contracts related to combustion turbine generators (contract CP-101), specializing in instrumentation, protection systems, and TCS. In addition, I supported infrastructure systems of the power plant such as PABX, DECT, computers, data network, copiers and printers, the I&C workshop, fire alarms, traveling water screen and trash rack systems – most of which are under the civil work contract (CP-102). In addition, I participated in the analysis of technical offers and the review of supporting documents from various bidders and contractors. My regular tasks during the construction phases of this plant involved following up on material receiving (MRR), contract disposition deviation (CDDR), and field change (FCR) reports to compare with specification.

**Dates** : From Sep. 2010 till Feb. 2011

**Project** : Cairo North Power Station consists of TWO modules (2x750MW Combined Cycle)

**Job title** : Operation Engineer

**Dates** : From Sep. 2009 till Sep. 2010  
**Employer** : Ceramica Cleopatra Group  
**Job title** : Electrical & Instrumentation Control Engineer  
**Job Description** :

- Responsible for troubleshooting, maintenance for Electrical Problems in motors, Contactors, Relays, Soft Starters and Inverters.
- Responsible for troubleshooting, maintenance for Instrumentation Problems in Omron PLC, Proximity Switches on Production Lines.

Technical Skills:

- PLC (Schneider (Nano – Micro)) & Siemens (S7200 & S7300) - Allen Bradley - Zelio.
- Power & Industrial electronics and it's applications.
- Mechatronics & Robotic systems.
- Hydraulic and Pneumatic systems.